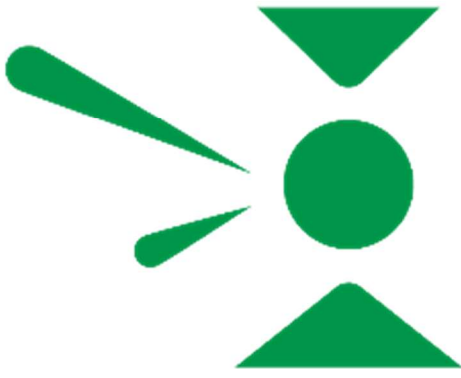
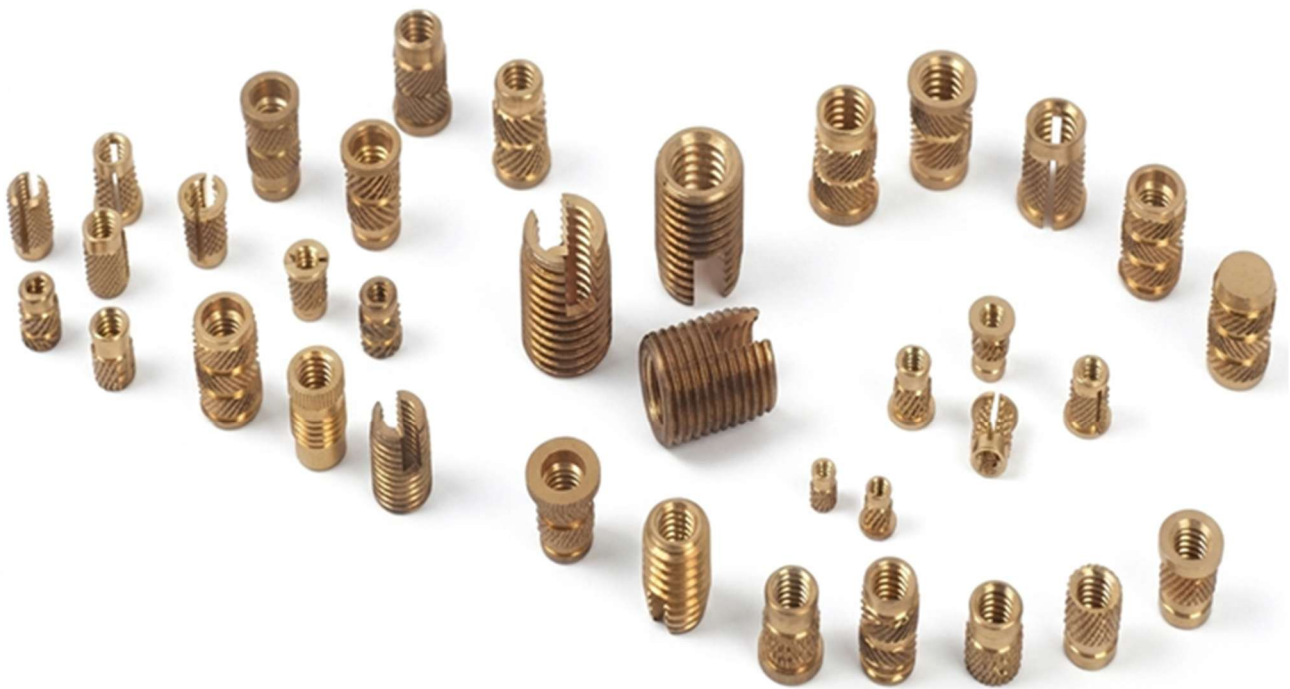


# INSERTS FOR PLASTIC




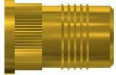









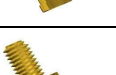
**ATS**  
**bet on us**

Quality Sistem Certified Company UNI EN ISO 9001:2015 Reg.3023-A

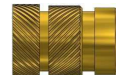

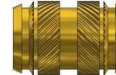
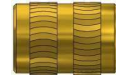


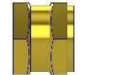
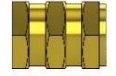


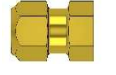

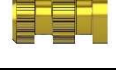





# INDEX





## Insertion by pressure






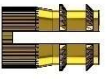




|  |                  |    |
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|    | <b>ATSUFL</b>    | 8  |
|    | <b>ATSHFL</b>    | 8  |
|    | <b>ATSUPLK</b>   | 9  |
|    | <b>ATSUBL</b>    | 10 |
|    | <b>ATSHBL</b>    | 10 |
|   | <b>ATSHBLR</b>   | 10 |
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|  | <b>ATSHPTS</b>   | 13 |

## Hot insertion

|   |                         |    |
|---|-------------------------|----|
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|    | <b>ATSHHL</b>           | 7  |
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|  | <b>ATSIECML</b>         | 15 |
| <b>Self-tapping threaded inserts</b>  |                         |    |
|  | <b>ATSA-B-C-D 16903</b> | 16 |
|  | <b>ATSE-F-G-H 16903</b> | 17 |
|  | <b>ATSJ-K-L-N 16903</b> | 18 |
|  | <b>ATSP-Q-R-S 16903</b> | 19 |
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# INSERT SELECTION GUIDE

|   | Hard thermoplastics<br>PA – PPS-<br>PBT –<br>PC/ABS | Medium thermoplastics<br>ABS – PA – POM<br>– PVC | Soft thermoplastics<br>PP – PE –HDPE | Amorphous thermoplastics<br>PPO – PC | Thermosetting | Thermosetting polyesters<br>SMC – DMC –<br>BMC | Thermo-<br>plastic<br>foams | Transparent<br>foams | Traction |
|---|---|--|--------------------------------------|--------------------------------------|---------------|--|-----------------------------|----------------------|----------|
| <br>ATSUSL    | OK  | OK   | OK                                   | OK hot<br>No ultrasound              | NO            | NO   | +/-                         | NO                   | OK       |
| <br>ATSHSL    | OK  | OK   | OK                                   | OK hot<br>No ultrasound              | NO            | NO   | +/-                         | NO                   | OK       |
| <br>ATSUTC    | OK  | OK   | OK                                   | OK hot<br>No ultrasound              | NO            | NO   | +/-                         | NO                   | OK       |
| <br>ATSUHL    | +/-   | +/-  | NO                                   | OK                                   | NO            | NO   | +/-                         | NO                   | OK       |
| <br>ATSHHL   | +/-   | +/-  | NO                                   | OK                                   | NO            | NO   | +/-                         | NO                   | OK       |
| <br>ATSUFL  | NO  | OK   | OK                                   | NO                                   | NO            | NO   | NO                          | NO                   | +/-      |
| <br>ATSHFL  | NO  | OK   | OK                                   | NO                                   | NO            | NO   | NO                          | NO                   | +/-      |
| <br>ATSUPLK | NO  | OK   | OK                                   | NO                                   | NO            | NO   | NO                          | NO                   | +/-      |
| <br>ATSUBL  | NO  | NO   | NO                                   | NO                                   | OK            | NO   | NO                          | NO                   | +/-      |
| <br>ATSHBL  | NO  | NO   | NO                                   | NO                                   | OK            | NO   | NO                          | NO                   | +/-      |
| <br>ATSHBLR | NO  | NO   | NO                                   | NO                                   | OK            | NO   | NO                          | NO                   | +/-      |
| <br>ATSUSP  | NO  | NO   | NO                                   | NO                                   | OK            | +/-  | NO                          | NO                   | +/-      |

|   | Hard thermoplastics<br>PA – PPS – PBT – PC/ABS | Medium thermoplastics<br>ABS – PA – POM – PVC | Soft thermoplastics<br>PP – PE – HDPE | Amorphous thermoplastics<br>PPO – PC | Thermosetting | Thermosetting polyesters<br>SMC – DMC – BMC | Thermoplastic foams | Transparent foams | Traction |
|---|--|---|---------------------------------------|--------------------------------------|---------------|---|---------------------|-------------------|----------|
| <br>ATSHSP     | NO   | NO  | NO                                    | NO                                   | OK            | +/-   | NO                  | NO                | +/-      |
| <br>ATSUPTS     | NO   | NO  | NO                                    | NO                                   | OK            | +/-   | NO                  | NO                | +/-      |
| <br>ATSHPTS     | NO   | NO  | NO                                    | NO                                   | OK            | +/-   | NO                  | NO                | +/-      |
| <br>ATSUFTC     | OK   | OK  | OK                                    | OK                                   | OK            | OK  | OK                  | OK                | OK       |
| <br>ATSCPBCM    | +/-  | OK  | OK                                    | OK                                   | +/-           | NO  | NO                  | NO                | +/-      |
| <br>ATSCPBCML | +/-  | OK  | OK                                    | OK                                   | +/-           | NO  | NO                  | NO                | +/-      |
| <br>ATSU212  | +/-  | OK  | OK                                    | NO                                   | +/-           | +/-   | OK                  | OK                | OK       |
| <br>ATSBFA212 | +/-  | OK  | OK                                    | NO                                   | +/-           | +/-   | OK                  | OK                | OK       |
| <br>ATSBFA318 | +/-  | OK  | OK                                    | NO                                   | +/-           | +/-   | OK                  | OK                | OK       |
| <br>ATSBAM   | OK   | +/-   | NO                                    | NO                                   | OK            | OK  | OK                  | OK                | OK       |

# ATSUSL - ATSHSL

## HOT INSERTION

ATSUSL and ATSHSL are threaded brass inserts for use on thermoplastic materials by means of heat or ultrasonic insertion.

Opposite knurling provides excellent tensile and torsion resistance.

They can also be inserted in co-moulding.

### ATSUSL



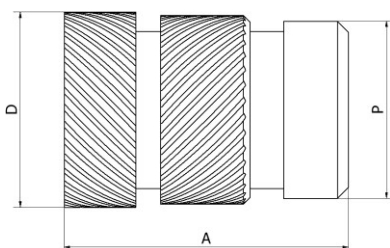
### ATSHSL



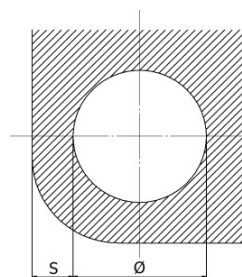
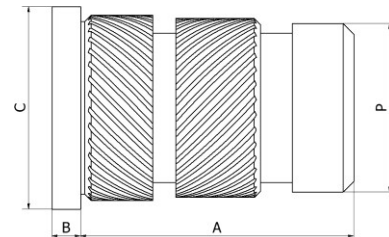
| CODE                     | INTERNAL THREAD | A    | B    | C    | D    | P    | HOLE Ø<br>- 0,00<br>+ 0,10 | WALL MINIMUM THICKNESS S |
|--------------------------|-----------------|------|------|------|------|------|----------------------------|--------------------------|
| ATSUSLM2<br>ATSHSLM2     | M 2             | 4    | 0,53 | 4,8  | 3,6  | 3,1  | 3,2                        | 1,3                      |
| ATSUSLM2,5<br>ATSHSLM2,5 | M 2,5           | 5,7  | 0,61 | 5,5  | 4,6  | 3,9  | 4                          | 1,6                      |
| ATSUSLM3<br>ATSHSLM3     | M 3             | 5,7  | 0,61 | 5,5  | 4,6  | 3,9  | 4                          | 1,6                      |
| ATSUSLM4<br>ATSHSLM4     | M 4             | 8,1  | 0,91 | 7,1  | 6,3  | 5,5  | 5,6                        | 2,1                      |
| ATSUSLM5<br>ATSHSLM5     | M 5             | 9,5  | 1,09 | 7,9  | 7,1  | 6,3  | 6,4                        | 2,6                      |
| ATSUSLM6<br>ATSHSLM6     | M 6             | 12,7 | 1,35 | 9,5  | 8,7  | 7,9  | 8                          | 3,3                      |
| ATSUSLM8<br>ATSHSLM8     | M 8             | 12,7 | 1,35 | 11,1 | 10,2 | 9,5  | 9,6                        | 4,5                      |
| ATSUSLM10<br>ATSHSLM10   | M 10            | 12,7 | 1,6  | 14   | 12,6 | 11,8 | 11,9                       | 6                        |
| ATSUSLM12<br>ATSHSLM12   | M 12            | 15,9 | 2    | 19   | 16,7 | 15,8 | 16                         | 8                        |

*All dimensions are expressed in mm*

### ATSUSL



### ATSHSL



# ATSUTC

## HOT INSERTION

ATSUTC is a threaded brass insert with superior sealing characteristics than the ATSUSL insert due to its opposing knurls and knurled flanges.

The insert's symmetrical shape is also recommended for automatic insertion.

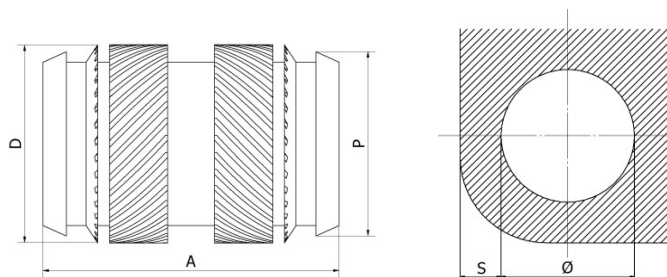
### ATSUTC



| CODE       | INTERNAL THREAD | A    | B | C | D    | P    | HOLE Ø<br>- 0,00<br>+ 0,10 | WALL MINIMUM THICKNESS S |
|------------|-----------------|------|---|---|------|------|----------------------------|--------------------------|
| ATSUTCM2   | M 2             | 4    | / | / | 3,5  | 3,1  | 3,2                        | 1,3                      |
| ATSUTCM2,5 | M 2,5           | 5,7  | / | / | 4,4  | 3,9  | 4                          | 1,6                      |
| ATSUTCM3   | M 3             | 5,7  | / | / | 4,4  | 3,9  | 4                          | 1,6                      |
| ATSUTCM4   | M 4             | 8,1  | / | / | 6,1  | 5,5  | 5,6                        | 2,1                      |
| ATSUTCM5   | M 5             | 9,5  | / | / | 6,8  | 6,3  | 6,4                        | 2,6                      |
| ATSUTCM6   | M 6             | 12,7 | / | / | 8,5  | 7,9  | 8                          | 3,3                      |
| ATSUTCM8   | M 8             | 12,7 | / | / | 10,0 | 9,5  | 9,6                        | 4,5                      |
| ATSUTCM10  | M 10            | 12,7 | / | / | 12,3 | 11,8 | 11,9                       | 6                        |
| ATSUTCM12  | M 12            | 15,9 | / | / | 16,3 | 15,8 | 16                         | 8                        |

*All dimensions are expressed in mm*

### ATSUTC



# ATSUHL - ATSHHL

## HOT INSERTION

ATSUHL and ATSHHL are threaded brass inserts for installation in amorphous, notch-sensitive thermoplastics. Characterised by rounded knurls, they can also be inserted in co-moulding.

### ATSUHL



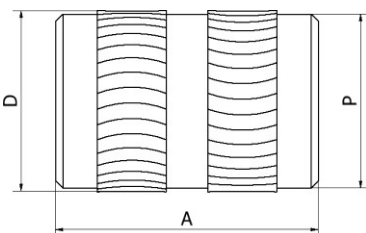
### ATSHHL



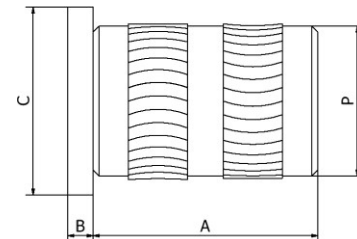
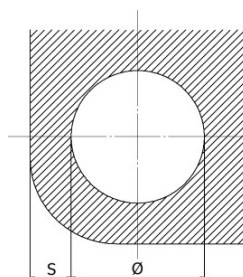
| CODE                     | INTERNAL THREAD | A    | B    | C    | D    | P   | HOLE Ø<br>- 0,00<br>+ 0,10 | WALL MINIMUM THICKNESS S |
|--------------------------|-----------------|------|------|------|------|-----|----------------------------|--------------------------|
| ATSUHLM2<br>ATSHHLM2     | M 2             | 3,9  | 0,51 | 4,8  | 3,5  | 3,1 | 3,2                        | 1,4                      |
| ATSUHLM2,5<br>ATSHHLM2,5 | M 2,5           | 5,8  | 0,58 | 5,5  | 4,4  | 3,9 | 4,0                        | 1,8                      |
| ATSUHLM3<br>ATSHHLM3     | M 3             | 5,8  | 0,58 | 5,5  | 4,4  | 3,9 | 4,0                        | 1,8                      |
| ATSUHLM4<br>ATSHHLM4     | M 4             | 8,1  | 0,89 | 7,1  | 6,1  | 5,5 | 5,6                        | 2,4                      |
| ATSUHLM5<br>ATSHHLM5     | M 5             | 9,5  | 1,07 | 7,9  | 6,9  | 6,3 | 6,4                        | 2,8                      |
| ATSUHLM6<br>ATSHHLM6     | M 6             | 12,7 | 1,32 | 9,5  | 8,5  | 7,9 | 8,0                        | 3,6                      |
| ATSUHLM8<br>ATSHHLM8     | M 8             | 12,7 | 1,32 | 11,1 | 10,0 | 9,5 | 9,6                        | 5                        |

*All dimensions are expressed in mm*

### ATSUHL



### ATSHHL



# ATSUFL - ATSHFL

## INSERTION BY PRESSURE

ATSUFL and ATSHFL are threaded brass press-fit inserts suitable for most soft and medium thermoplastic materials.

### ATSUFL



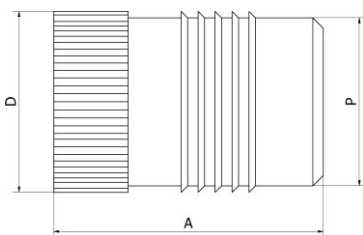
### ATSHFL



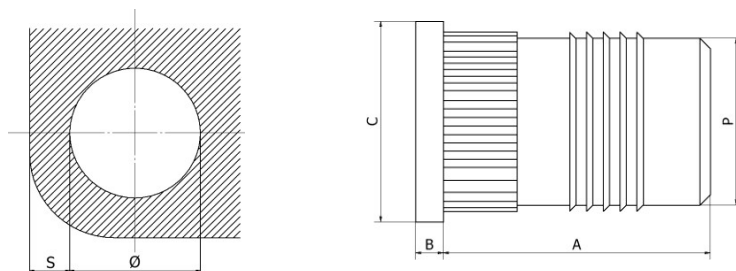
| CODE                     | THREAD | A    | B    | C    | D   | P   | HOLE Ø<br>- 0,00<br>+ 0,10 | WALL<br>MINIMUM<br>THICKNESS<br>S |
|--------------------------|--------|------|------|------|-----|-----|----------------------------|-----------------------------------|
| ATSUFLM2<br>ATSHFLM2     | M 2    | 3,9  | 0,51 | 4,8  | 3,5 | 3,1 | 3,2                        | 1,4                               |
| ATSUFLM2,5<br>ATSHFLM2,5 | M 2,5  | 5,8  | 0,58 | 5,5  | 4,4 | 3,9 | 4                          | 1,8                               |
| ATSUFLM3<br>ATSHFLM3     | M 3    | 5,8  | 0,58 | 5,5  | 4,4 | 3,9 | 4                          | 1,8                               |
| ATSUFLM4<br>ATSHFLM4     | M 4    | 8,1  | 0,89 | 7,1  | 6,1 | 5,5 | 5,6                        | 2,4                               |
| ATSUFLM5<br>ATSHFLM5     | M 5    | 9,5  | 1,07 | 7,9  | 6,9 | 6,3 | 6,4                        | 2,8                               |
| ATSUFLM6<br>ATSHFLM6     | M 6    | 12,7 | 1,32 | 9,5  | 8,5 | 7,9 | 8                          | 3,6                               |
| ATSUFLM8<br>ATSHFLM8     | M 8    | 12,7 | 1,32 | 11,1 | 10  | 9,5 | 9,6                        | 5                                 |

*All dimensions are expressed in mm*

### ATSUFL



### ATSHFL



# ATSUPLK

## INSERTION BY PRESSURE

**ATSUPLK** is a threaded brass insert for quick installation in soft and medium thermoplastic materials.

Equipped with fins and knurling, unlike the **ATSUFL** insert, it features a vertical notch which, after insertion, has a slight self-braking effect on the screw.

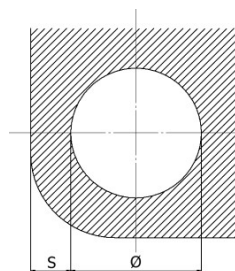
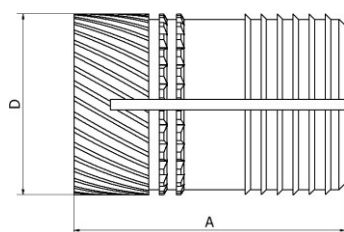
## ATSUPLK



| CODE        | INTERNAL THREAD | A    | B | C | D   | P | HOLE Ø<br>- 0,00<br>+ 0,10 | WALL MINIMUM THICKNESS S |
|-------------|-----------------|------|---|---|-----|---|----------------------------|--------------------------|
| ATSUPLKM2   | M 2             | 4    | / | / | 3,5 | / | 3,2                        | 1,6                      |
| ATSUPLKM2,5 | M 2,5           | 5,8  | / | / | 4,4 | / | 4,0                        | 2                        |
| ATSUPLKM3   | M 3             | 5,8  | / | / | 4,4 | / | 4,0                        | 2                        |
| ATSUPLKM4   | M 4             | 8,2  | / | / | 6,1 | / | 5,6                        | 2,8                      |
| ATSUPLKM5   | M 5             | 9,5  | / | / | 6,8 | / | 6,4                        | 3,2                      |
| ATSUPLKM6   | M 6             | 12,7 | / | / | 8,5 | / | 8                          | 4                        |
| ATSUPLKM8   | M 8             | 12,7 | / | / | 10  | / | 9,6                        | 4,8                      |

*All dimensions are expressed in mm*

## ATSUPLK



# ATSUBL – ATSHBL - ATSHBLR

## INSERTION BY PRESSURE

ATSXBL, ATSXHBL and ATSXHBLR are press-fit brass threaded inserts with an expanding seal, ideal for thermosets.

Equipped with knurling, they feature a vertical notch which has a slight self-locking effect on the screw after insertion.

### ATSUBL



### ATSHBL



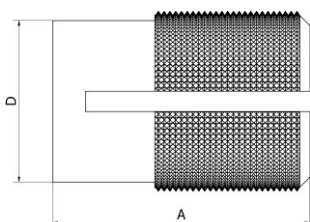
### ATSHBLR



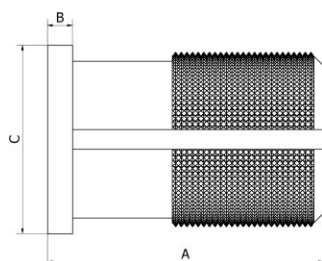
| CODE                                    | INTERNAL THREAD | A    | B    | C    | D   | P | HOLE Ø<br>- 0,00<br>+ 0,10 | WALL MINIMUM THICKNESS S |
|---|-----------------|------|------|------|-----|---|----------------------------|--------------------------|
| ATSUBLM2<br>ATSHBLM2<br>ATSHBLRM2       | M 2             | 3,9  | 0,43 | 4,8  | 3,2 | / | 3,2                        | 2,4                      |
| ATSUBLM2,5<br>ATSHBLM2,5<br>ATSHBLRM2,5 | M 2,5           | 4,7  | 0,51 | 5,5  | 4   | / | 4                          | 3,2                      |
| ATSUBLM3<br>ATSHBLM3<br>ATSHBLRM3       | M 3             | 4,7  | 0,51 | 5,5  | 4   | / | 4                          | 3,2                      |
| ATSUBLM4<br>ATSHBLM4<br>ATSHBLRM4       | M 4             | 7,9  | 0,82 | 7,1  | 5,5 | / | 5,6                        | 4                        |
| ATSUBLM5<br>ATSHBLM5<br>ATSHBLRM5       | M 5             | 9,4  | 0,99 | 7,9  | 6,3 | / | 6,4                        | 4,8                      |
| ATSUBLM6<br>ATSHBLM6<br>ATSHBLRM6       | M 6             | 12,6 | 1,25 | 9,5  | 7,9 | / | 8                          | 6                        |
| ATSUBLM8<br>ATSHBLM8<br>ATSHBLRM8       | M 8             | 12,6 | 1,25 | 11,1 | 9,5 | / | 9,6                        | 7                        |

All dimensions are expressed in mm

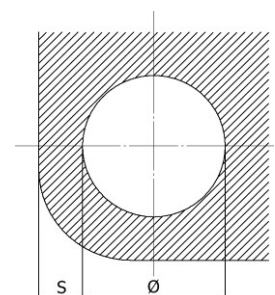
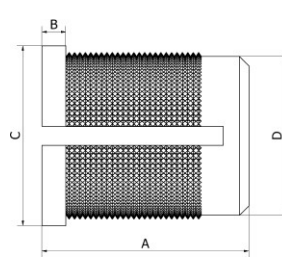
### ATSUBL



### ATSHBL



### ATSHBLR



# ATSUSP - ATSHSP

## INSERTION BY PRESSURE

ATSUSP and ATSHSP are threaded brass inserts designed for use in hard and brittle thermosets.

The sharp-edged knurling allows for high torsion resistance.

### ATSUSP



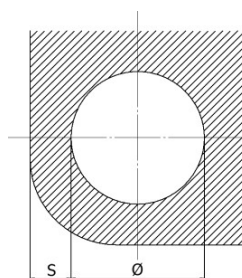
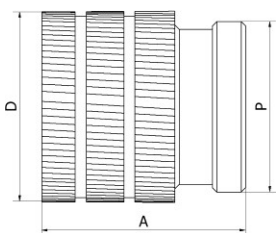
### ATSHSP



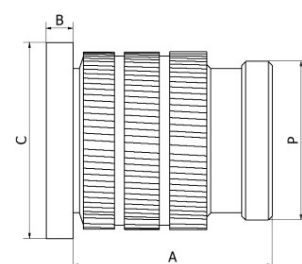
| CODE                     | INTERNAL THREAD | A   | B    | C    | D    | P    | HOLE Ø<br>- 0,00<br>+ 0,10 | WALL MINIMUM THICKNESS S |
|--------------------------|-----------------|-----|------|------|------|------|----------------------------|--------------------------|
| ATSUSPM2<br>ATSHSPM2     | M 2             | 4,1 | 0,51 | 4,8  | 3,3  | 3    | 3,1                        | 1,6                      |
| ATSUSPM2,5<br>ATSHSPM2,5 | M 2,5           | 5,3 | 0,58 | 5,5  | 4,2  | 3,7  | 3,8                        | 2                        |
| ATSUSPM3<br>ATSHSPM3     | M 3             | 5,3 | 0,58 | 5,5  | 4,2  | 3,7  | 3,8                        | 2                        |
| ATSUSPM4<br>ATSHSPM4     | M 4             | 7,4 | 0,89 | 7,1  | 5,8  | 5,3  | 5,4                        | 2,5                      |
| ATSUSPM5<br>ATSHSPM5     | M 5             | 8,3 | 1,07 | 7,9  | 6,6  | 6,1  | 6,2                        | 2,5                      |
| ATSUSPM6<br>ATSHSPM6     | M 6             | 9,2 | 1,32 | 9,5  | 8,2  | 7,7  | 7,8                        | 2,8                      |
| ATSUSPM8<br>ATSHSPM8     | M 8             | 9,2 | 1,32 | 11,1 | 9,7  | 9,3  | 9,3                        | 3,8                      |
| ATSUSPM10<br>ATSHSPM10   | M 10            | 9,2 | 1,32 | 14   | 12,7 | 12,2 | 12,3                       | 5                        |

*All dimensions are expressed in mm*

### ATSUSP



### ATSHSP



# ATSCPBCM – ATSCPBCML

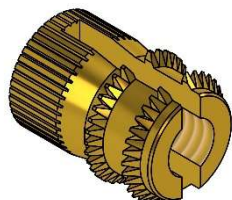
## INSERTION BY PRESSURE

ATSCPBCM and ATSCPBCML are brass expansion inserts designed for press-fit installation in all thermoplastic materials. Once installed, they provide a slight self-locking effect on the screw. Excellent resistance to torque and pull-out forces.

### ATSCPBCM



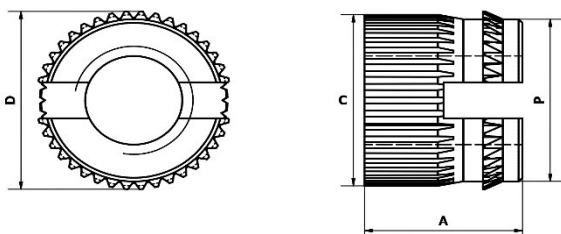
### ATSCPBCML



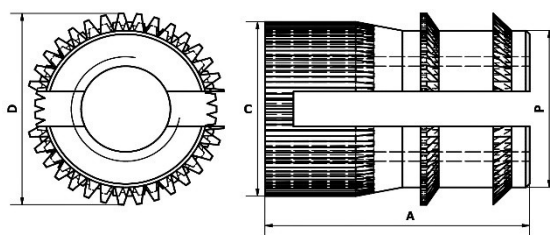
| CODE        | INTERNAL THREAD | A   | C   | D    | P    | HOLE Ø  |
|-------------|-----------------|-----|-----|------|------|---------|
| ATSCPBCM2   | M 2             | 3,5 | 3,5 | 3,9  | 3,1  | 3,1-3,2 |
| ATSCPBCM2,5 | M 2,5           | 4   | 4   | 4,4  | 3,5  | 3,6-3,7 |
| ATSCPBCM3   | M3              | 5   | 5   | 5,6  | 4,5  | 4,6-4,7 |
| ATSCPBCML3  |                 | 8   | 5   | 5,6  | 4,5  | 4,6-4,7 |
| ATSCPBCMLL3 |                 | 9,5 | 5   | 5,6  | 4,5  | 4,6-4,7 |
| ATSCPBCM4   | M4              | 5   | 6   | 6,6  | 5,4  | 5,5-5,6 |
| ATSCPBCML4  |                 | 8   | 6   | 6,6  | 5,4  | 5,5-5,6 |
| ATSCPBCMLL4 |                 | 9,5 | 6   | 6,6  | 5,4  | 5,5-5,6 |
| ATSCPBCM5   | M5              | 6   | 7   | 7,6  | 6,5  | 6,6-6,7 |
| ATSCPBCML5  |                 | 9   | 7   | 7,6  | 6,5  | 6,6-6,7 |
| ATSCPBCM6   | M6              | 7   | 8   | 8,6  | 7,5  | 7,6-7,7 |
| ATSCPBCML6  |                 | 9   | 8   | 8,6  | 8,72 | 7,6-7,7 |
| ATSCPBCML8  | M8              | 10  | 10  | 10,6 | 9,4  | 9,5-9,6 |

*All dimensions are expressed in mm*

### ATSCPBCM



### ATSCPBCML



# ATSUPTS - ATSHPTS

## INSERTION BY PRESSURE

ATSUPTS and ATSHPTS are male threaded brass inserts designed for use in thermosets.

The sharp-edged knurling allows for high torsion and tensile strength, pin threads available in different lengths.

### ATSUPTS



### ATSHPTS

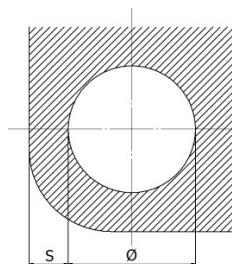
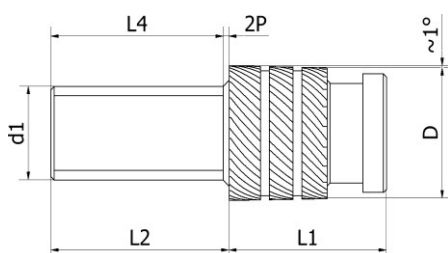


| CODE                       | d1    | L2         | D    | L1  | D4       | L3       | HOLE Ø<br>- 0,00<br>+ 0,10 | WALL<br>MINIMUM<br>THICKNES<br>S |
|----------------------------|-------|------------|------|-----|----------|----------|----------------------------|----------------------------------|
| ATSUPTSM2<br>ATSHPTSM2     | M 2   | 6-10-16-25 | 3,35 | 4   | -<br>4,8 | -<br>0,6 | 3,1                        | 1,6                              |
| ATSUPTSM2,5<br>ATSHPTSM2,5 | M 2,5 | 6-10-16-25 | 4,2  | 5,3 | -<br>5,6 | -<br>0,6 | 3,8                        | 2                                |
| ATSUPTSM3<br>ATSHPTSM3     | M 3   | 6-10-16-25 | 4,2  | 5,3 | -<br>5,6 | -<br>0,6 | 3,8                        | 2                                |
| ATSUPTSM3,5<br>ATSHPTSM3,5 | M 3,5 | 6-10-16-25 | 5    | 6,3 | -<br>6,4 | -<br>0,8 | 4,6                        | 2,5                              |
| ATSUPTSM4<br>ATSHPTSM4     | M 4   | 6-10-16-25 | 5,8  | 7,4 | -<br>7,2 | -<br>0,8 | 5,4                        | 2,5                              |
| ATSUPTSM5<br>ATSHPTSM5     | M 5   | 6-10-16-25 | 6,6  | 8,3 | -<br>8   | -<br>1   | 6,2                        | 2,5                              |
| ATSUPTSM6<br>ATSHPTSM6     | M 6   | 6-10-16-25 | 8,2  | 9,2 | -<br>9,5 | -<br>1,3 | 7,8                        | 2,8                              |
| ATSUPTSM8<br>ATSHPTSM8     | M 8   | 6-10-16-25 | 9,7  | 9,2 | -<br>11  | -<br>1,3 | 9,3                        | 3,8                              |

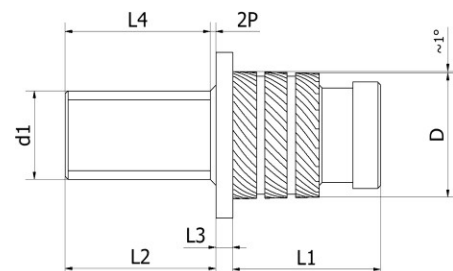
THREAD LENGTH L4 = L2-2P  
(P=THREAD PITCH)

*All dimensions are expressed in mm*

### ATSUPTS



### ATSHPTS

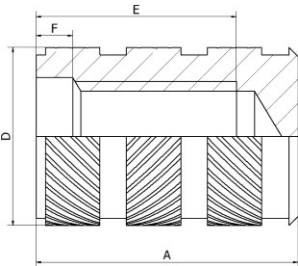


# ATSUFTC

## INSERTION MOULDING

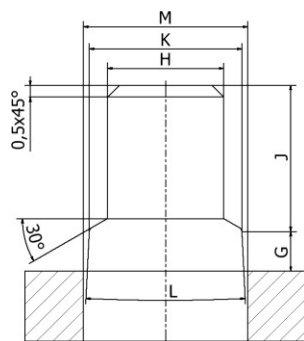
ATSUFTC is a threaded brass insert with a blind bottom ideal for co-moulding. Its 3 opposed helical strip knurling together with its grooves provide high torsion and tension results.

### ATSUFTC



| CODE        | INTERNAL THREAD | A    | D    | Min. E | F   |
|-------------|-----------------|------|------|--------|-----|
| ATSUFTCM2   | M 2             | 5,5  | 3,4  | 3,6    | 1   |
| ATSUFTCM2,5 | M 2,5           | 6,4  | 4,3  | 4      | 1,2 |
| ATSUFTCM3   | M 3             | 7,3  | 4,7  | 4,6    | 1,3 |
| ATSUFTCM4   | M 4             | 10,2 | 6,3  | 6,7    | 1,8 |
| ATSUFTCM5   | M 5             | 11,2 | 7,3  | 7,4    | 2   |
| ATSUFTCM6   | M 6             | 14,4 | 9,8  | 8,1    | 2   |
| ATSUFTCM8   | M 8             | 16,5 | 11,4 | 11,1   | 2,3 |
| ATSUFTCM10  | M 10            | 17,9 | 13,8 | 11,9   | 2,4 |

## REFERENCE PIN ON THE MOULD



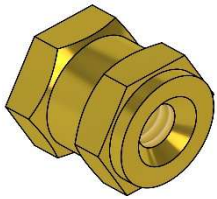
| INTERNAL THREAD | G<br>-020<br>+040<br>mm | H<br>-025<br>+000<br>mm | J<br>-100<br>+100<br>mm | K<br>-0125<br>+0125<br>mm | L<br>Including<br>Degrees | M<br>mm |
|-----------------|-------------------------|-------------------------|-------------------------|---------------------------|---------------------------|---------|
| M 2             | 0,8                     | 1,55                    | 2,65                    | 2,3                       | 6                         | 3       |
| M 2,5           | 0,9                     | 2                       | 3                       | 2,8                       | 5                         | 3,5     |
| M 3             | 1,05                    | 2,45                    | 3,4                     | 3,125                     | 4,5                       | 4       |
| M 4             | 1,55                    | 3,25                    | 5                       | 4,425                     | 4,5                       | 5,4     |
| M 5             | 1,7                     | 4,15                    | 5,55                    | 5,125                     | 5                         | 6       |
| M 6             | 1,8                     | 4,95                    | 6,15                    | 6,5                       | 5,5                       | 8       |
| M 8             | 2                       | 6,7                     | 9                       | 8,5                       | 6                         | 10      |
| M 10            | 2,1                     | 8,4                     | 9,7                     | 10,5                      | 6                         | 12      |

*All dimensions are expressed in mm*

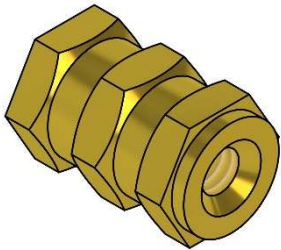
# ATSIECM – ATSIECML

## INSERTION MOULDING

### ATSIECM



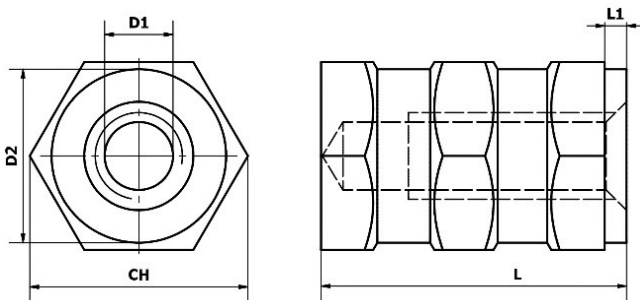
### ATSIECML



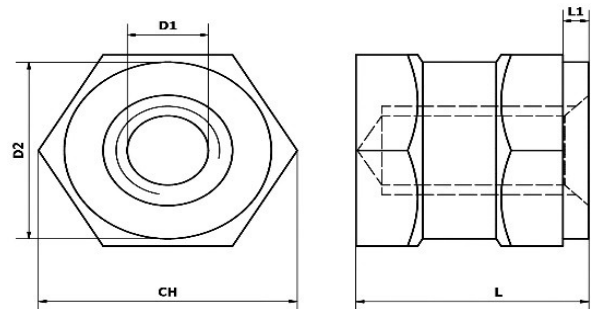
| CODE                    | D1  | CH | L         | L1 | D2  |
|-------------------------|-----|----|-----------|----|-----|
| ATSIECM3<br>ATSIECML3   | M3  | 5  | 4,5<br>6  | 1  | 4   |
| ATSIECM4<br>ATSIECML4   | M4  | 6  | 6<br>8    | 1  | 5,5 |
| ATSIECM5<br>ATSIECML5   | M5  | 7  | 7,5<br>10 | 1  | 7   |
| ATSIECM6<br>ATSIECML6   | M6  | 9  | 9<br>12   | 1  | 8   |
| ATSIECM8<br>ATSIECML8   | M8  | 11 | 12<br>16  | 1  | 10  |
| ATSIECM10<br>ATSIECML10 | M10 | 14 | 15<br>20  | 1  | 12  |

*All dimensions are expressed in mm*

### ATSIECML

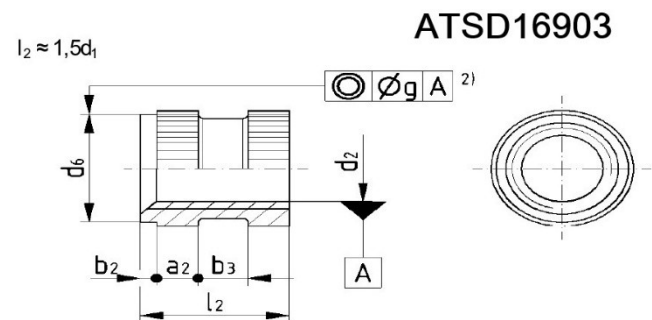
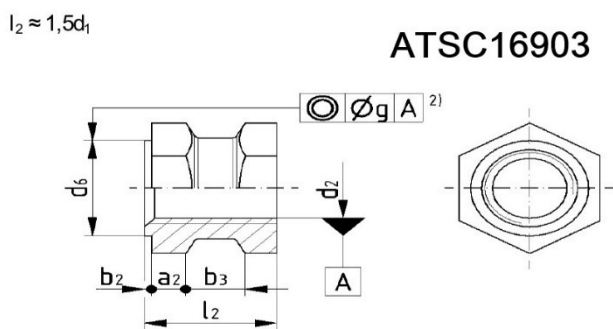
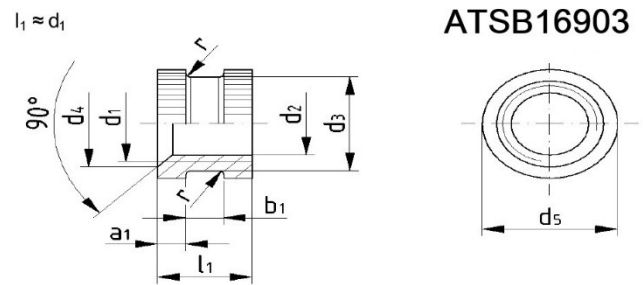
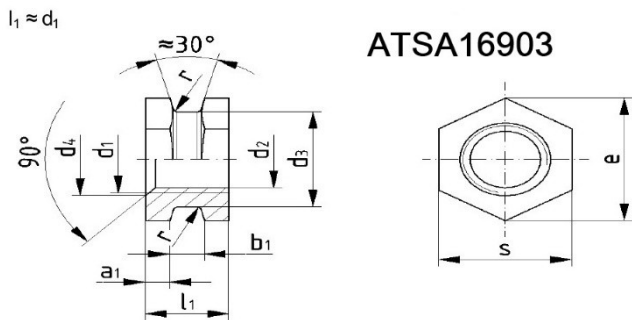


### ATSIECM

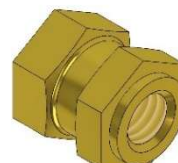
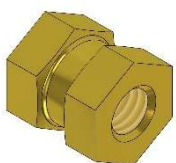


# THREADED INSERT DIN 16903 (DIN ISO 1101)

## INSERTION MOULDING

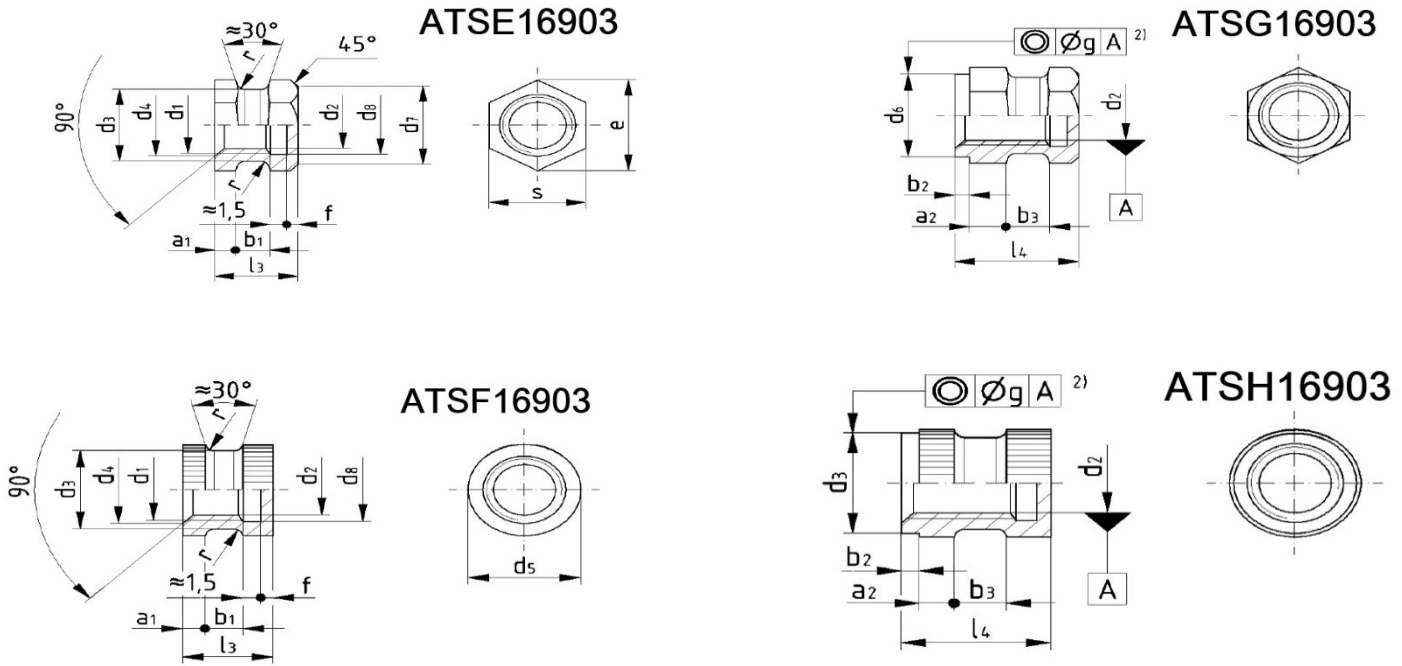


| Threaded inserts             |           | B, D |       | A, B, C, D |       |     |     |      |      | A, C |      |  |
|------------------------------|-----------|------|-------|------------|-------|-----|-----|------|------|------|------|--|
| Quote                        | Tolerance | M 2  | M 2,5 | M 3        | M 3,5 | M 4 | M 5 | M 6  | M 8  | M 10 | M 12 |  |
| a <sub>1</sub>               |           | 0,8  | 0,9   | 0,9        | 1     | 1,2 | 1,6 | 1,8  | 2    | 3    | 3,5  |  |
| a <sub>2</sub>               |           | 0,9  | 1     | 1,2        | 1,6   | 1,8 | 2   | 2,5  | 4    | 4    | 5    |  |
| b <sub>1</sub>               |           | 0,8  | 0,8   | 1,2        | 1,4   | 1,4 | 1,8 | 2,4  | 4    | 4    | 5    |  |
| b <sub>2</sub>               |           | 0,8  | 0,8   | 1          | 1     | 1   | 1   | 1    | 1    | 1    | 1    |  |
| b <sub>3</sub>               |           | 0,8  | 1     | 1,2        | 1,4   | 1,4 | 2,5 | 3    | 4    | 6    | 7    |  |
| d <sub>2</sub>               | H11       | 1,6  | 2,05  | 2,5        | 2,9   | 3,3 | 4,2 | 5    | 6,8  | 8,5  | 10,3 |  |
| d <sub>3</sub>               | h12       | 3,2  | 3,4   | 3,8        | 4,5   | 5   | 6,4 | 7,4  | 10,4 | 13   | 17   |  |
| d <sub>4</sub>               |           | 2,7  | 3     | 3,4        | 4     | 4,5 | 5,5 | 6,8  | 8,8  | 11   | 13   |  |
| d <sub>5</sub> <sup>1)</sup> |           | 3,5  | 3,8   | 4,2        | 5     | 5,5 | 7   | 8    | -    | -    | -    |  |
| d <sub>6</sub>               | h11       | 3,5  | 3,8   | 4,2        | 5     | 5,5 | 7   | 8    | 10   | 12,5 | 16   |  |
| g                            |           | 0,1  | 0,1   | 0,1        | 0,1   | 0,1 | 0,1 | 0,16 | 0,16 | 0,2  | 0,2  |  |
| l <sub>1</sub>               | h12       | 2,3  | 2,6   | 3          | 3,5   | 4   | 5   | 6    | 8    | 10   | 12   |  |
| l <sub>2</sub>               | h12       | 3,5  | 4     | 4,5        | 5,5   | 6   | 7,5 | 9    | 12   | 15   | 18   |  |
| r                            | ≈         | 0,3  | 0,3   | 0,3        | 0,3   | 0,4 | 0,6 | 0,6  | 0,6  | 0,6  | 0,6  |  |
| t                            |           | 0,5  | 0,5   | 0,5        | 0,5   | 0,5 | 0,6 | 0,6  | -    | -    | -    |  |
| s                            | ≈         | -    | -     | 5          | 5,5   | 6   | 7   | 9    | 11   | 14   | 19   |  |
| e                            | ≈         | -    | -     | 5,8        | 6,1   | 6,9 | 8,1 | 10,4 | 12,7 | 16,2 | 21,9 |  |



# THREADED INSERT DIN 16903 (DIN ISO 1101)

## INSERTION MOULDING

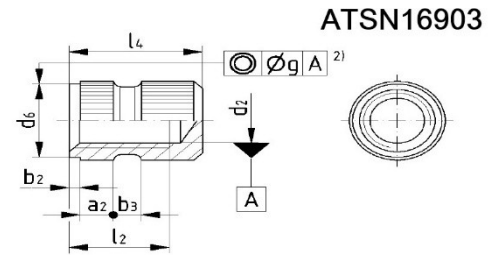
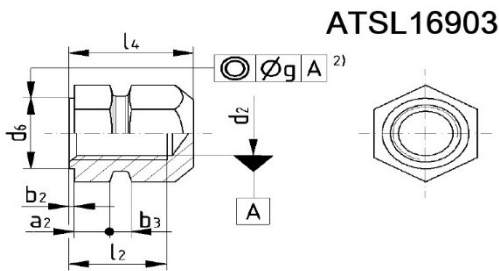
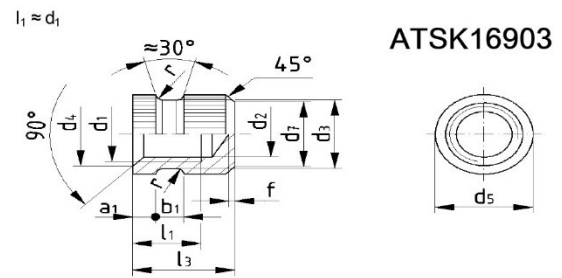
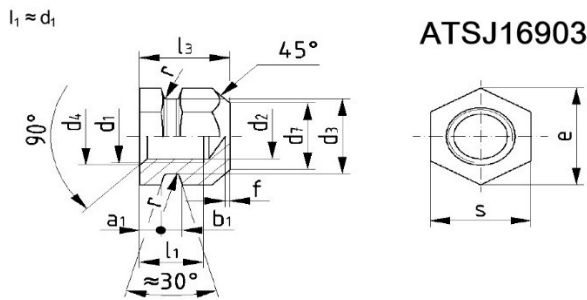


| Threaded inserts             |           | - |   | E, F, G, H   |       |     |     |      | E, G |               |  |
|------------------------------|-----------|---|---|--|-------|-----|-----|------|------|---------------|--|
| Quote                        | Tolerance | - | - | M 3  | M 3,5 | M 4 | M 5 | M 6  | M 8  | M 10          |  |
| a <sub>1</sub>               |           | - | - | 1,2  | 1,4   | 1,4 | 1,5 | 1,8  | 2,5  | ON<br>REQUEST |  |
| a <sub>2</sub>               |           | - | - | 1,2  | 1,5   | 1,5 | 2   | 2,5  | 3,5  |               |  |
| b <sub>1</sub>               |           | - | - | 1,5  | 1,8   | 2,2 | 2,5 | 3,2  | 3,8  |               |  |
| b <sub>2</sub>               |           | - | - | 1  | 1     | 1   | 1   | 1    | 1    |               |  |
| b <sub>3</sub>               |           | - | - | 1,8  | 2,2   | 2,5 | 3   | 3,5  | 4,5  |               |  |
| f                            |           | - | - | For manufacturing reasons, minimum pitch x 1.5 (to be specified before placing the order). |       |     |     |      |      |               |  |
| d <sub>2</sub>               | H11       | - | - | 2,5  | 2,9   | 3,3 | 4,2 | 5    | 6,8  |               |  |
| d <sub>3</sub>               | h12       | - | - | 3,8  | 4,5   | 5   | 6,4 | 7,4  | 10,4 |               |  |
| d <sub>4</sub>               |           | - | - | 3,4  | 4     | 4,5 | 5,5 | 6,8  | 8,8  |               |  |
| d <sub>5</sub> <sup>1)</sup> |           | - | - | 4,2  | 5     | 5,5 | 7   | 8    | 12   |               |  |
| d <sub>6</sub>               | h11       | - | - | 4,2  | 5     | 5,5 | 7   | 8    | 10   |               |  |
| d <sub>7</sub>               |           | - | - | 4,2  | 5,5   | 6   | 7   | 9    | 11   |               |  |
| d <sub>8</sub>               | +0,3      | - | - | 3  | 3,5   | 4   | 5   | 6    | 8    |               |  |
| g                            | h14       | - | - | 0,1  | 0,1   | 0,1 | 0,1 | 0,16 | 0,16 |               |  |
| l <sub>3</sub>               | h12       | - | - | 3,8  | 4,5   | 5   | 6   | 7    | 9,5  |               |  |
| l <sub>4</sub>               | h12       | - | - | 5,3  | 6,5   | 7   | 8,5 | 10   | 13,5 |               |  |
| r                            |           | - | - | 0,3  | 0,3   | 0,4 | 0,6 | 0,6  | 0,6  |               |  |
| t                            |           | - | - | 0,5  | 0,5   | 0,5 | 0,5 | 0,6  | -    |               |  |
| s                            |           | - | - | 5  | 5,5   | 6   | 7   | 9    | 11   |               |  |
| e                            |           | - | - | 5,8  | 6,1   | 6,9 | 8,1 | 10,4 | 12,7 |               |  |



# THREADED INSERT DIN 16903 (DIN ISO 1101)

## INSERTION MouldING

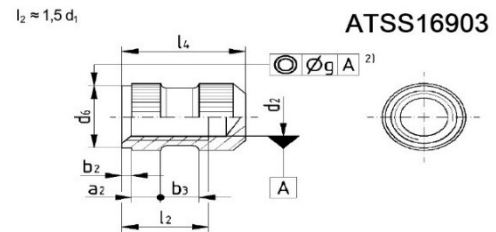
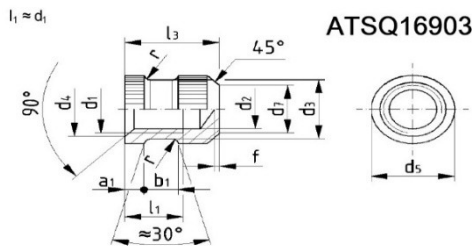
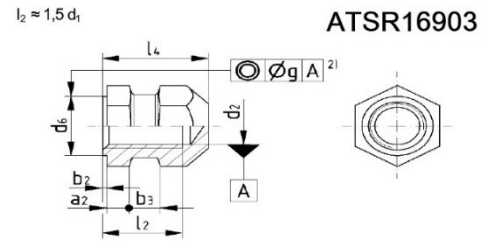
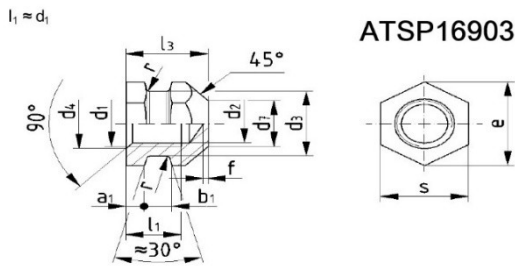


| Threaded inserts             |                    | K, N              |                     | J, K, L, N |         |     |      |      | J, L |      |      |
|------------------------------|--------------------|-------------------|---------------------|------------|---------|-----|------|------|------|------|------|
| Quote                        | Tolerance          | M 2 <sup>4)</sup> | M 2,5 <sup>4)</sup> | M 3        | (M 3,5) | M 4 | M 5  | M 6  | M 8  | M 10 | M 12 |
| a <sub>1</sub>               |                    | 1                 | 1,2                 | 1,4        | 1,5     | 1,5 | 1,8  | 2    | 2,8  | 3,5  | 4    |
| a <sub>2</sub>               |                    | 1,2               | 1,5                 | 1,6        | 2       | 2   | 2,5  | 3    | 4,2  | 5,5  | 6,5  |
| b <sub>1</sub>               |                    | 1,2               | 1,2                 | 1,2        | 1,5     | 1,8 | 2    | 2,5  | 3    | 3,5  | 4    |
| b <sub>2</sub>               |                    | 0,8               | 0,8                 | 1          | 1       | 1   | 1    | 1    | 1    | 1    | 1    |
| b <sub>3</sub>               |                    | 1,2               | 1,2                 | 1,2        | 1,5     | 1,8 | 2    | 2,5  | 3    | 3,5  | 4    |
| d <sub>2</sub> <sup>3)</sup> | H11                | 1,6               | 2,05                | 2,5        | 2,9     | 3,3 | 4,2  | 5    | 6,8  | 8,5  | 10,3 |
| d <sub>3</sub>               | h12                | 3,2               | 3,4                 | 3,8        | 4,5     | 5   | 6,4  | 7,4  | 10   | 13   | 17   |
| d <sub>4</sub>               |                    | 2,7               | 3                   | 3,4        | 4       | 4,5 | 5,5  | 6,8  | 8,8  | 11   | 13   |
| d <sub>5</sub> <sup>1)</sup> | ≈                  | 3,5               | 3,8                 | 4,2        | 5       | 5,5 | 7    | 8    | -    | -    | -    |
| d <sub>6</sub>               | h11                | 3,5               | 3,8                 | 4,2        | 5       | 5,5 | 7    | 8    | 10   | 12,5 | 16   |
| d <sub>7</sub>               |                    | 3                 | 3,4                 | 3,8        | 4,5     | 5   | 6    | 7    | 9    | 12   | 15   |
| f                            | +0,2 <sup>4)</sup> | 0,4               | 0,4                 | 0,5        | 0,5     | 0,5 | 0,5  | 0,5  | 0,8  | 0,8  | 1    |
| l <sub>1</sub>               | h14 <sup>4)</sup>  | 2,3               | 2,6                 | 3          | 3,5     | 4   | 5    | 6    | 8    | 10   | 12   |
| l <sub>2</sub>               | h14 <sup>4)</sup>  | 3,5               | 4                   | 4,5        | 5,5     | 6   | 7,5  | 9    | 12   | 15   | 18   |
| l <sub>3</sub>               | h12 <sup>4)</sup>  | 3,8               | 4,2                 | 4,8        | 5,5     | 6,5 | 7,6  | 9    | 12   | 14,2 | 17   |
| l <sub>4</sub>               | h12 <sup>4)</sup>  | 5                 | 5,6                 | 6,3        | 7,5     | 8,5 | 10,2 | 12   | 16   | 19,2 | 23   |
| s                            |                    | -                 | -                   | -          | -       | 6   | 7    | 9    | 11   | 14   | 19   |
| e                            | ≈                  | -                 | -                   | -          | -       | 6,9 | 8,1  | 10,4 | 12,7 | 16,2 | 21,9 |
| g <sup>4)</sup>              |                    | 0,1               | 0,1                 | 0,1        | 0,1     | 0,1 | 0,1  | 0,16 | 0,16 | 0,2  | 0,2  |
| r <sup>4)</sup>              | ≈                  | 0,3               | 0,3                 | 0,3        | 0,3     | 0,4 | 0,6  | 0,6  | 0,6  | 0,6  | 0,6  |
| t <sup>4)</sup>              | ≈                  | 0,5               | 0,5                 | 0,5        | 0,5     | 0,5 | 0,5  | 0,6  | -    | -    | -    |



# THREADED INSERT DIN 16903 (DIN ISO 1101)

## INSERTION MOULDING

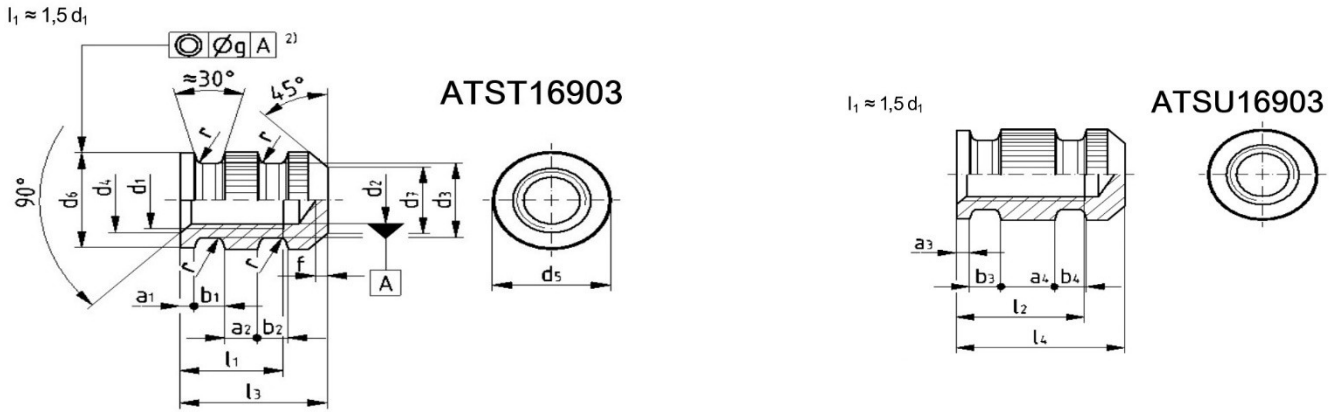


| Threaded inserts             |           | Q, S |       | P, Q, R, S |         |     |      |      | P, R |      |      |
|------------------------------|-----------|------|-------|------------|---------|-----|------|------|------|------|------|
| Quote                        | Tolerance | M 2  | M 2,5 | M 3        | (M 3,5) | M 4 | M 5  | M 6  | M 8  | M 10 | M 12 |
| a <sub>1</sub>               |           | 1    | 1,2   | 1,4        | 1,5     | 1,5 | 1,8  | 2    | 2,8  | 3,5  | 4    |
| a <sub>2</sub>               |           | 1,2  | 1,5   | 1,6        | 2       | 2   | 2,5  | 3    | 4    | 5    | 5    |
| b <sub>1</sub>               |           | 1,2  | 1,5   | 1,8        | 1,8     | 2,5 | 3    | 3,5  | 4,5  | 5    | 6    |
| b <sub>2</sub>               |           | 0,8  | 0,8   | 1          | 1       | 1   | 1    | 1    | 1    | 1    | 1    |
| b <sub>3</sub>               |           | 1,6  | 1,6   | 1,8        | 2       | 2,8 | 3,5  | 4    | 5,5  | 6    | 7    |
| d <sub>2</sub>               | H11       | 1,6  | 2,05  | 2,5        | 2,9     | 3,3 | 4,2  | 5    | 6,8  | 8,5  | 10,3 |
| d <sub>3</sub>               | h12       | 3,2  | 3,4   | 3,8        | 4,5     | 5   | 6,4  | 7,4  | 10,4 | 13   | 17   |
| d <sub>4</sub>               |           | 2,7  | 3     | 3,4        | 4       | 4,5 | 5,5  | 6,8  | 8,8  | 11   | 13   |
| d <sub>5</sub> <sup>1)</sup> |           | 3,5  | 3,8   | 4,2        | 5       | 5,5 | 7    | 8    | -    | -    | -    |
| d <sub>6</sub>               | h11       | 3,5  | 3,8   | 4,2        | 5       | 5,5 | 7    | 8    | 10   | 12,5 | 16   |
| d <sub>7</sub>               |           | 2,5  | 2,5   | 2,8        | 3,5     | 4   | 5    | 6    | 7    | 10   | 12   |
| f                            | +0,2      | 0,4  | 0,4   | 0,5        | 0,5     | 0,5 | 0,5  | 0,5  | 0,8  | 0,8  | 1    |
| g                            |           | 0,1  | 0,1   | 0,1        | 0,1     | 0,1 | 0,1  | 0,16 | 0,16 | 0,2  | 0,2  |
| l <sub>1</sub>               | h14       | 2,3  | 2,6   | 3          | 3,5     | 4   | 5    | 6    | 8    | 10   | 12   |
| l <sub>2</sub>               | h14       | 3,5  | 4     | 4,5        | 5,5     | 6   | 7,5  | 9    | 12   | 15   | 18   |
| l <sub>3</sub>               | h12       | 4    | 4,6   | 5,5        | 6       | 7   | 8,3  | 9,8  | 12,6 | 15   | 17,8 |
| l <sub>4</sub>               | h12       | 5,2  | 6     | 7          | 8       | 9   | 10,8 | 12,8 | 16,6 | 20   | 23,8 |
| r                            | ≈         | 0,3  | 0,3   | 0,3        | 0,3     | 0,4 | 0,6  | 0,6  | 0,6  | 0,6  | 0,6  |
| t                            | ≈         | 0,5  | 0,5   | 0,5        | 0,5     | 0,5 | 0,5  | 0,6  | -    | -    | -    |
| s                            |           | -    | -     | 5          | 5,5     | 6   | 7    | 9    | 11   | 14   | 19   |
| e                            |           | -    | -     | 5,8        | 6,1     | 6,9 | 8,1  | 10,4 | 12,7 | 16,2 | 21,9 |



# THREADED INSERT DIN 16903 (DIN ISO 1101)

## INSERTION MOULDING



| Threaded inserts             |           | T   |       |     |         | T, U |      |      | U    |      |      |
|------------------------------|-----------|-----|-------|-----|---------|------|------|------|------|------|------|
| Quote                        | Tolerance | M 2 | M 2,5 | M 3 | (M 3,5) | M 4  | M 5  | M 6  | M 8  | M 10 | M 12 |
| a <sub>1</sub>               |           | 0,6 | 0,6   | 0,8 | 0,8     | 0,8  | 1    | 1,2  | -    | -    | -    |
| a <sub>2</sub>               |           | 1   | 1,1   | 1,3 | 1,6     | 1,8  | 2,2  | 2,8  | -    | -    | -    |
| a <sub>3</sub>               |           | -   | -     | -   | -       | 1    | 1    | 1,2  | 1,5  | 1,5  | 2    |
| a <sub>4</sub>               |           | -   | -     | -   | -       | 4    | 4,5  | 5    | 6    | 8    | 10   |
| b <sub>1</sub>               |           | 1,2 | 1,4   | 1,5 | 1,7     | 1,9  | 2,2  | 2,7  | -    | -    | -    |
| b <sub>2</sub>               |           | 1,2 | 1,4   | 1,5 | 1,7     | 1,9  | 2,2  | 2,7  | -    | -    | -    |
| b <sub>3</sub>               |           | -   | -     | -   | -       | 2    | 2,5  | 3    | 4    | 5    | 6    |
| b <sub>4</sub>               |           | -   | -     | -   | -       | 2    | 2,5  | 3    | 4    | 5    | 6    |
| d <sub>2</sub>               | H11       | 1,6 | 2,05  | 2,5 | 2,9     | 3,3  | 4,2  | 5    | 6,8  | 8,5  | 10,3 |
| d <sub>3</sub>               | h12       | 3,2 | 3,5   | 4   | 4,6     | 5,3  | 6,6  | 7,8  | 10,5 | 13   | 15,7 |
| d <sub>4</sub>               |           | 2,7 | 3     | 3,4 | 4       | 4,5  | 5,5  | 6,8  | 8,8  | 11   | 13   |
| d <sub>5</sub> <sup>1)</sup> |           | 4,5 | 5     | 5,5 | 6       | 7    | 9    | 10   | 12   | 15   | 18   |
| d <sub>6</sub>               | h11       | 4,5 | 5     | 5,5 | 6       | 7    | 9    | 10   | 12   | 15   | 18   |
| d <sub>7</sub>               |           | 3,4 | 3,6   | 3,8 | 4,5     | 5    | 6    | 7    | 9    | 12   | 15   |
| f                            | +0,2      | 0,4 | 0,4   | 0,5 | 0,5     | 0,5  | 0,5  | 0,5  | 0,8  | 0,8  | 1    |
| l <sub>1</sub>               | h14       | 3,5 | 4     | 4,5 | 5,5     | 6    | 7,5  | 9    | -    | -    | -    |
| l <sub>2</sub>               | h14       | -   | -     | -   | -       | 8    | 10   | 12   | 16   | 20   | 24   |
| l <sub>3</sub>               | h12       | 5,2 | 6     | 7   | 8       | 9    | 10,5 | 12,8 | -    | -    | -    |
| l <sub>4</sub>               | h12       | -   | -     | -   | -       | 11   | 13,3 | 15,8 | 20,6 | 25   | 29,8 |
| g                            |           | 0,1 | 0,1   | 0,1 | 0,1     | 0,1  | 0,1  | 0,16 | 0,16 | 0,2  | 0,2  |
| t                            | ≈         | 0,5 | 0,5   | 0,5 | 0,5     | 0,5  | 0,6  | 0,6  | 0,6  | 0,6  | 0,8  |
| r                            | ≈         | 0,3 | 0,3   | 0,3 | 0,3     | 0,4  | 0,6  | 0,6  | 0,6  | 0,6  | 0,6  |



# SELF-TAPPING THREADED INSERT

## ATSU212 – ATSBFAF212

### INSERTION WITH MANUAL TOOL OR TAPPING MACHINE

The self-tapping bushing **ATSU212** and **ATSBFAF212** is screwed onto both thermoplastics and thermosets.

The self-tapping insert with internal and external thread is characterized by a tapping slit and provides excellent shear and tensile strength.

## ATSU212

- Brass



## ATSBFAF212

- Chrome VI-free Z.B. steel
- 303 Stainless steel
- 316 Stainless Steel

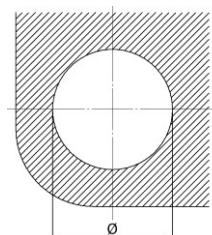
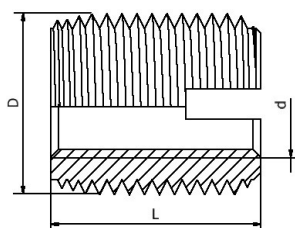


\* The choice of drilling  $\varnothing$  depends on the hardness of the base material

| CODE              |                     |                     |             | THREAD        |               | Indicative Drilling $\varnothing^*$ | Hole Min. Depth | L  |
|-------------------|---------------------|---------------------|-------------|---------------|---------------|-------------------------------------|-----------------|----|
| Galvanised Steel  | 303 Stainless steel | 316 Stainless Steel | Brass       | d int. thread | D Ext. thread |                                     |                 |    |
| ATSBFAF212M2,5ACC | ATSBFAF212M2,5I     | ATSBFAF212M2,5II    | ATSU212M2,5 | M2,5x 0,45    | 4,5 x 0,5     | 4,0 – 4,3                           | 8               | 6  |
| ATSBFAF212M03ACC  | ATSBFAF212M03I      | ATSBFAF212M03II     | ATSU212M3   | M3 x 0,5      | 5,0 x 0,5     | 4,5 – 4,8                           | 8               | 6  |
| ATSBFAF212M04ACC  | ATSBFAF212M04I      | ATSBFAF212M04II     | ATSU212M4   | M4 x 0,7      | 6,5 X 0,75    | 5,8 – 6,2                           | 10              | 8  |
| ATSBFAF212M05ACC  | ATSBFAF212M05I      | ATSBFAF212M05II     | ATSU212M5   | M5 x 0,8      | 8,0 X 1       | 7,1 – 7,6                           | 13              | 10 |
| ATSBFAF212M06AACC | ATSBFAF212M06AI     | ATSBFAF212M06AII    | ATSU212M6A  | M6 x 1        | 9,0 x 1       | 8,1 – 8,6                           | 15              | 12 |
| ATSBFAF212M06ACC  | ATSBFAF212M06I      | ATSBFAF212M06II     | ATSU212M6   | M6 x 1        | 10 x 1,5      | 8,6 – 9,4                           | 17              | 14 |
| ATSBFAF212M08ACC  | ATSBFAF212M08I      | ATSBFAF212M08II     | ATSU212M8   | M8 x 1,25     | 12 x 1,5      | 10,6 – 11,4                         | 18              | 15 |
| ATSBFAF212M10ACC  | ATSBFAF212M10I      | ATSBFAF212M10II     | ATSU212M10  | M10 x 1,5     | 14 x 1,5      | 12,6 – 13,4                         | 22              | 18 |
| ATSBFAF212M12ACC  | ATSBFAF212M12I      | ATSBFAF212M12II     | ATSU212M12  | M12 x 1,75    | 16 x 1,5      | 14,6 – 15,4                         | 26              | 22 |
| ATSBFAF212M14ACC  | ATSBFAF212M14I      | ATSBFAF212M14II     | ATSU212M14  | M14 x 2       | 18 x 1,5      | 16,6 – 17,4                         | 28              | 24 |
| ATSBFAF212M16ACC  | ATSBFAF212M16I      | ATSBFAF212M16II     | ATSU212M16  | M16 x 2       | 20 x 1,5      | 18,6 – 19,4                         | 27              | 22 |

*All dimensions are expressed in mm*

## ATSU212 - ATSBFAF212



# ATSBAF318 SELF-TAPPING THREADED INSERT

The self-tapping threaded insert **ATSBAF318** is screwed onto both thermoplastics and thermosets.

Short and compact, with internal and external threads characterized by tapping holes, it is particularly suitable for thin thicknesses.

## ATSBAF318

- Chrome VI-free Z.B. steel
- 303 Stainless steel

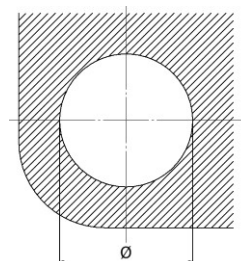
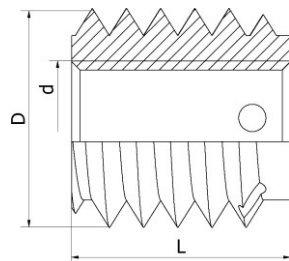


| CODE                           |                                  | THREAD        |               | Indicative Drilling Ø* | Hole Min. Depth | L        |
|--------------------------------|----------------------------------|---------------|---------------|------------------------|-----------------|----------|
| Galvanised Steel               | 303 Stainless steel              | D int. thread | D Ext. thread |                        |                 |          |
| ATSBAF318M03C<br>ATSBAF318M03L | ATSBAF318M03CI<br>ATSBAF318M03LI | M3 x 0,5      | 5 x 0,5       | 4,6 – 4,8              | 6<br>8          | 4<br>6   |
| ATSBAF318M04C<br>ATSBAF318M04L | ATSBAF318M04CI<br>ATSBAF318M04LI | M4 x 0,7      | 6,5 x 0,8     | 6,0 – 6,2              | 8<br>10         | 6<br>8   |
| ATSBAF318M05C<br>ATSBAF318M05L | ATSBAF318M05CI<br>ATSBAF318M05LI | M5 x 0,8      | 8,0 x 1       | 7,4 – 7,7              | 9<br>13         | 7<br>10  |
| ATSBAF318M06C<br>ATSBAF318M06L | ATSBAF318M06CI<br>ATSBAF318M06LI | M6 x 1,0      | 10,0 x 1,25   | 9,3 – 9,6              | 10<br>15        | 8<br>12  |
| ATSBAF318M08C<br>ATSBAF318M08L | ATSBAF318M08CI<br>ATSBAF318M08LI | M8 x 1,25     | 12,0 x 1,5    | 11,1 – 11,5            | 11<br>17        | 9<br>14  |
| ATSBAF318M10C<br>ATSBAF318M10L | ATSBAF318M10CI<br>ATSBAF318M10LI | M10 x 1,5     | 14,0 x 1,5    | 13,1 – 11,5            | 13<br>22        | 10<br>18 |
| ATSBAF318M12C<br>ATSBAF318M12L | ATSBAF318M12CI<br>ATSBAF318M12LI | M12 x 1,75    | 16,0 x 1,75   | 15,0 – 15,4            | 15<br>26        | 12<br>22 |
| ATSBAF318M14C<br>ATSBAF318M14L | ATSBAF318M14CI<br>ATSBAF318M14LI | M14 x 2,0     | 18,0 x 2      | 17,0 – 17,4            | 17<br>28        | 14<br>24 |

\* The choice of drilling Ø depends on the hardness of the base material

All dimensions are expressed in mm

ATSBAF318





On 22/07/2002 the company obtained with great satisfaction and pride the Quality Management System certification UNI EN ISO 9001:2000 adapting to the new standard UNI EN ISO 9001:2015 from 03/04/2018.

The main focus is on the customer, on the ability to recognize their needs and expectations, with the aim of being in line with market expectations and striving to achieve the objectives set through continuous improvement.

The company A.T.S. S.n.c. was founded in 1983 initially as a technical service in the spot-welding sector, later, thanks to numerous customer requests, a license was acquired to market welding systems and related spare parts.

Today, A.T.S. S.r.l., with the help of valid collaborators who systematically attend training and refresher courses, is at the forefront in the supply of equipment and materials in the catalogue thus defined as standard. It also specializes in the manufacture of customer-specific parts, and any other items on request inherent to the tacking, stud welding and fastening sector.

All the equipment supplied is guaranteed by the assistance of specialized in-house technical staff using certified equipment.



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